**ASSIGNMENT 2**

**BIT 302**

**Software Engineering**

****

**Project Proposal**

**Covid Testing Information System (CTIS)**

**Prepared by:**

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Contents

[Introduction 3](#_Toc68378225)

[Use Case Diagram 4](#_Toc68378226)

[Architectural Design 6](#_Toc68378227)

[Design Class Diagram 7](#_Toc68378228)

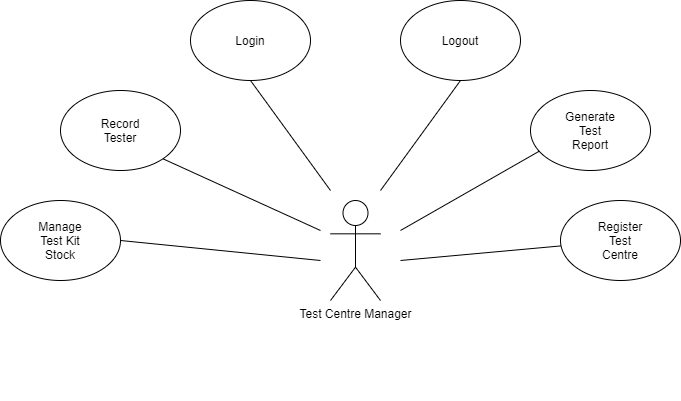
[Entity Relationship Diagram (ERD) 8](#_Toc68378229)

[Sitemap 9](#_Toc68378230)

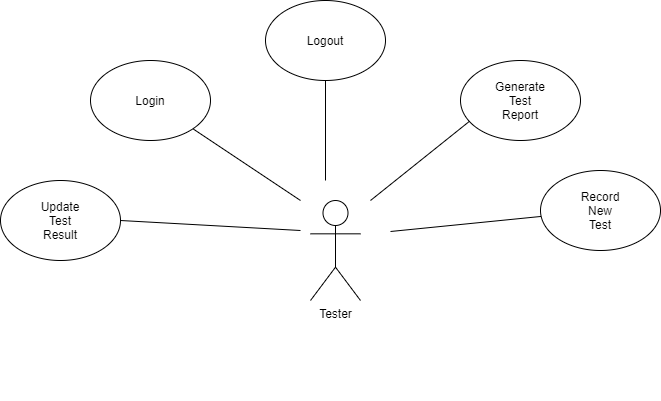
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Introduction

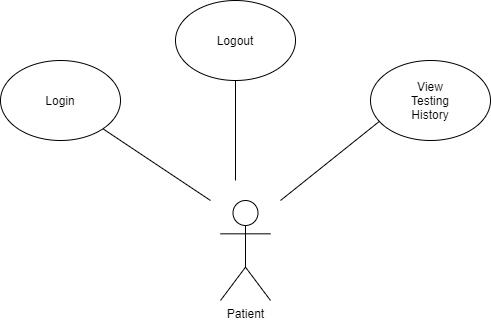
# Use Case Diagram



Use Case Diagram with Actor Test Centre Manager

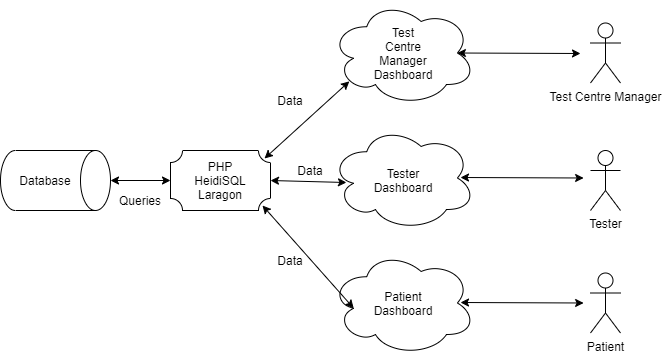


Use Case Diagram with Actor Tester

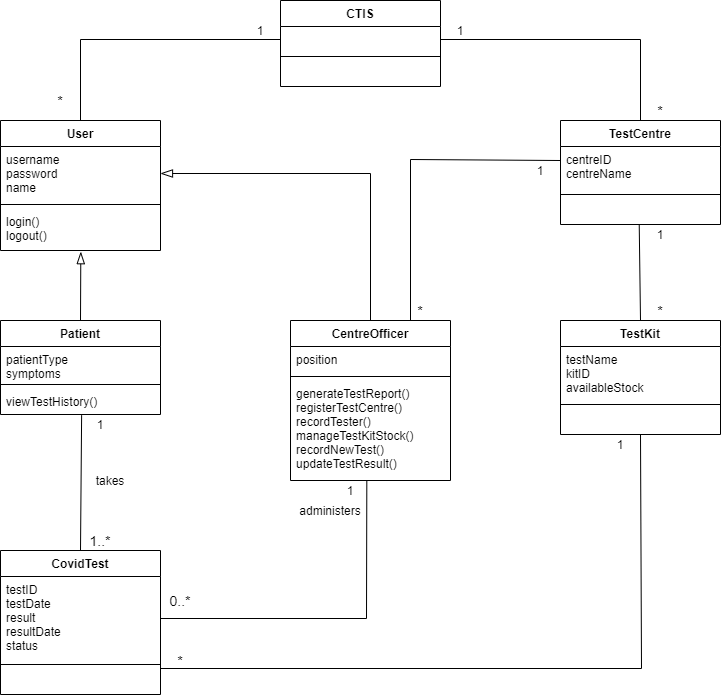


Use Case Diagram with Actor Patient

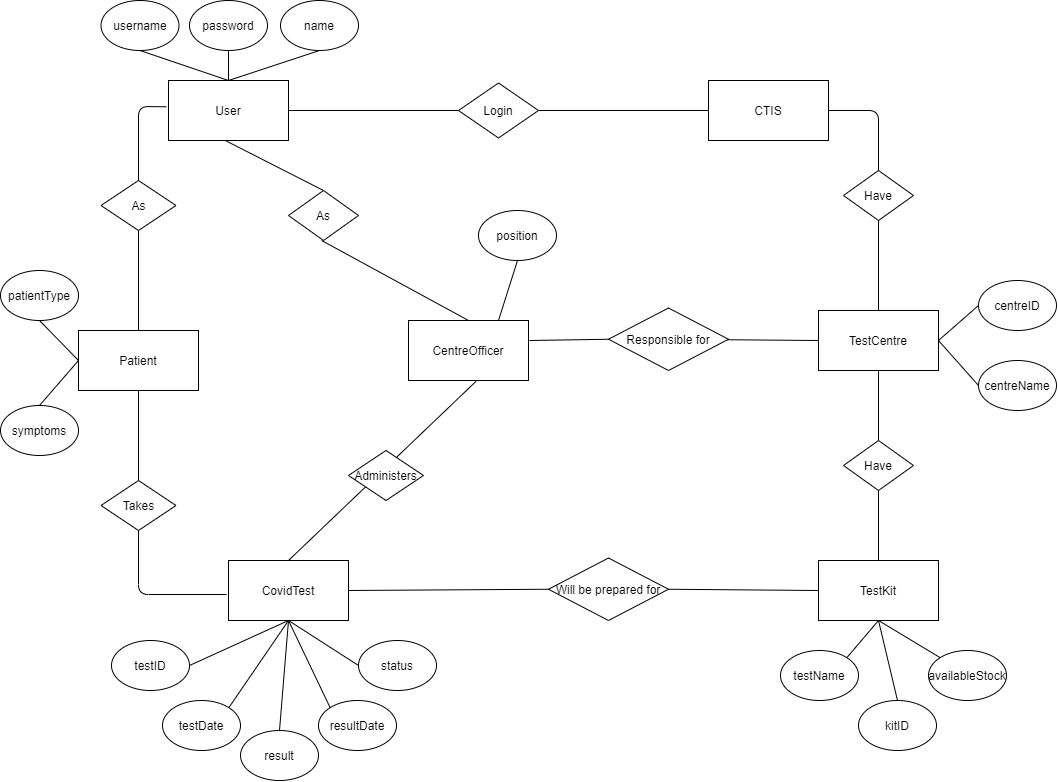
Architectural Design



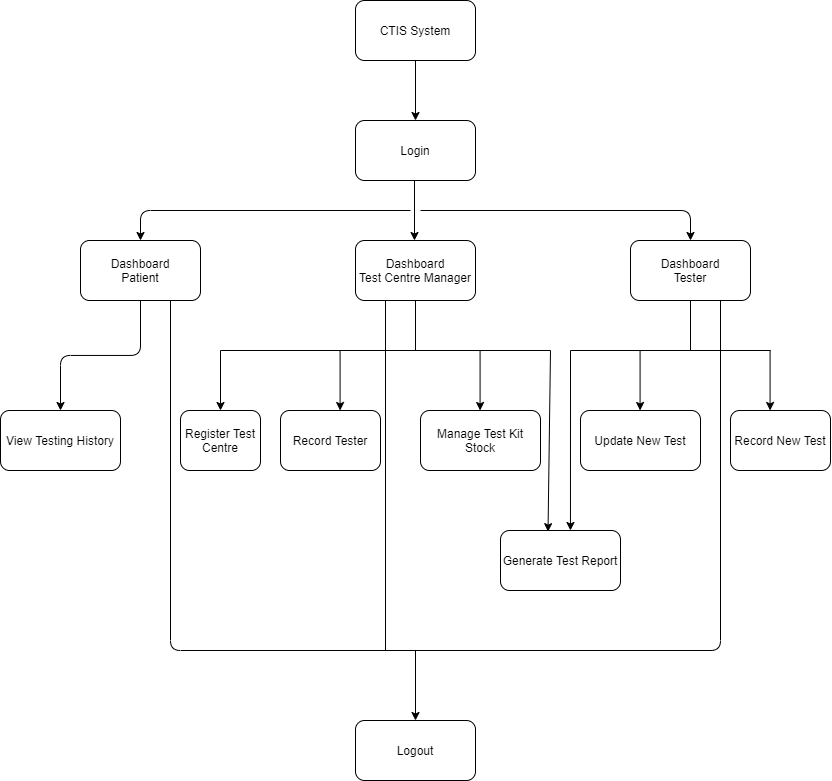
Design Class Diagram



Entity Relationship Diagram (ERD)

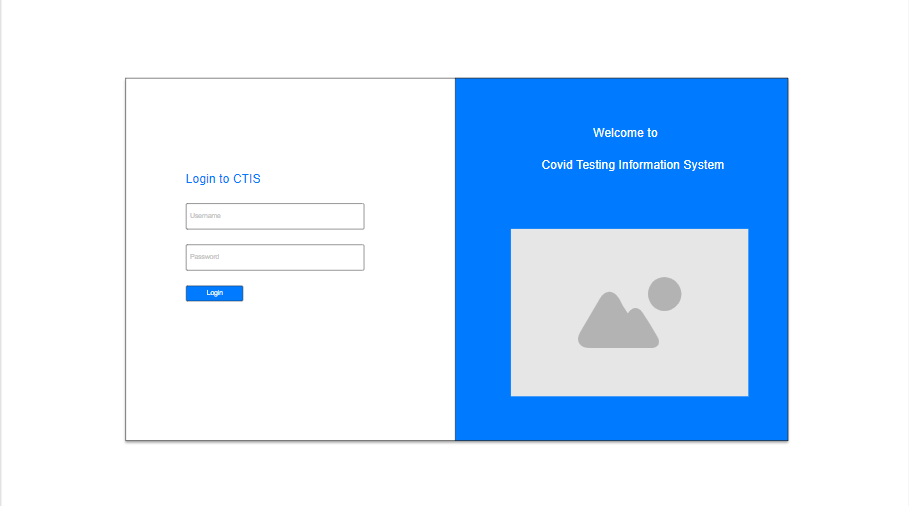


Sitemap

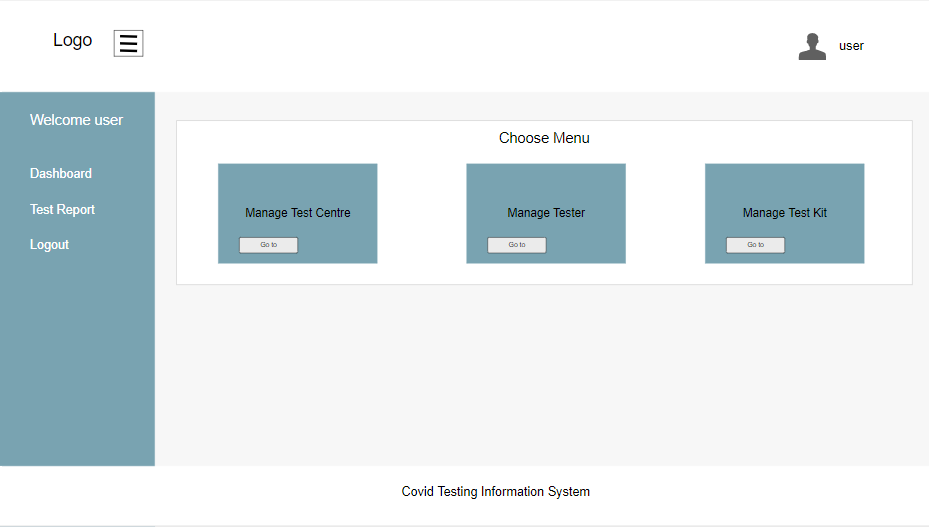


Wireframe

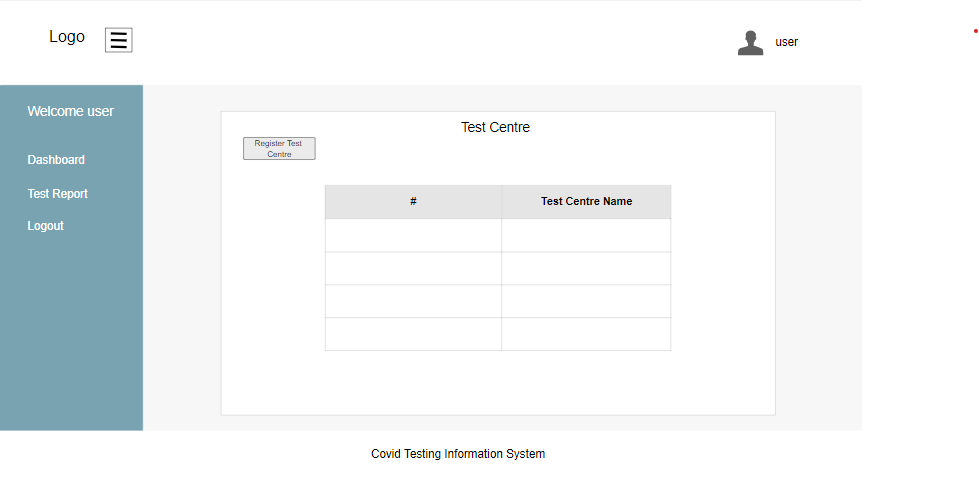
Login



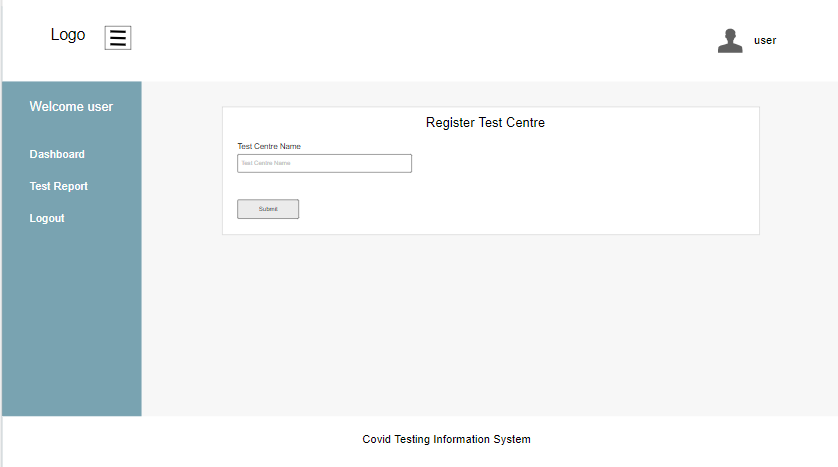
Test Centre Manager Dashboard



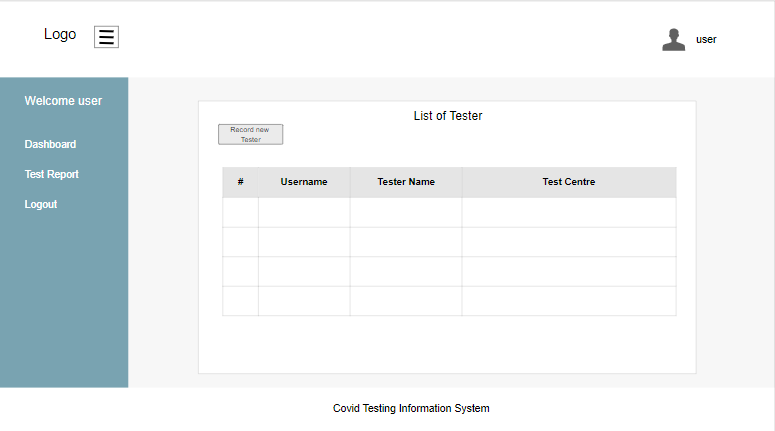
Manage Test Centre Page



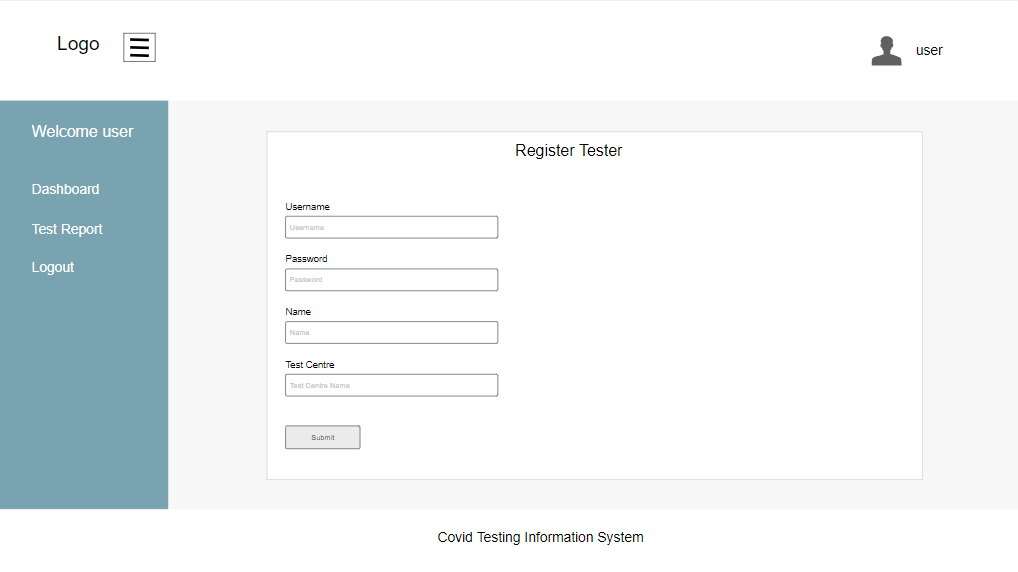
Register Test Centre Page



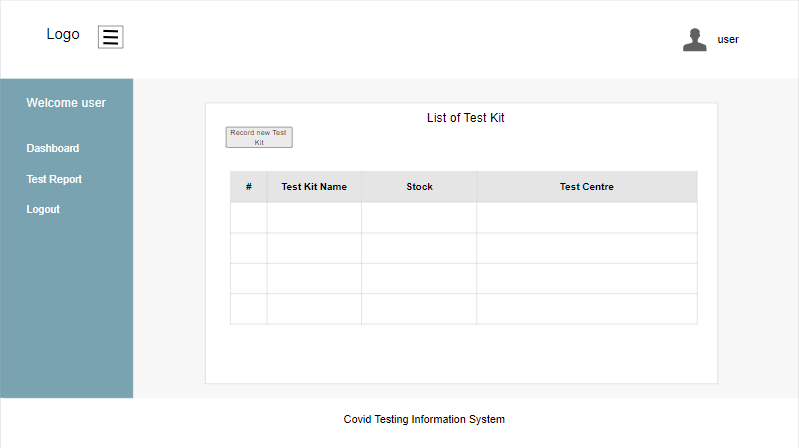
Manage Tester Page



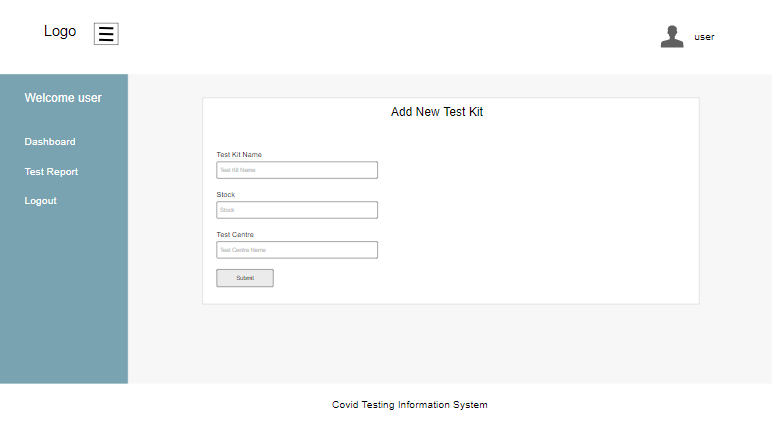
Record Tester Page



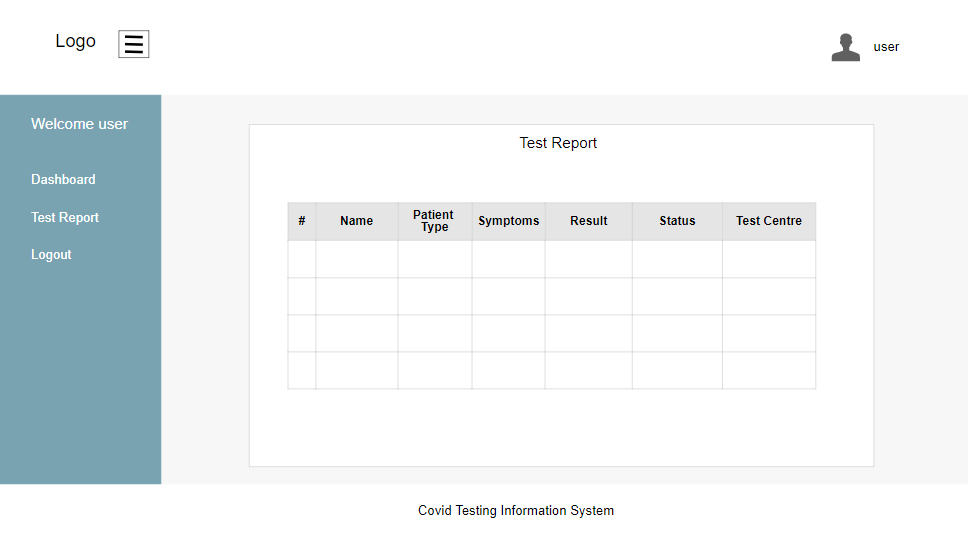
Manage Test Kit Stock



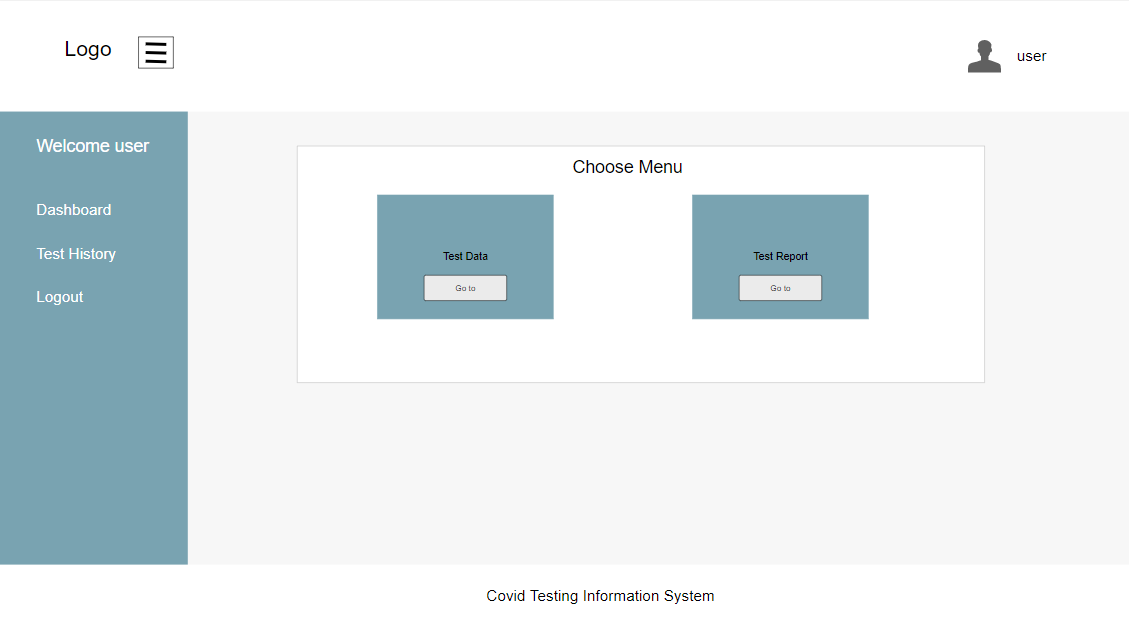
Record New Test Kit



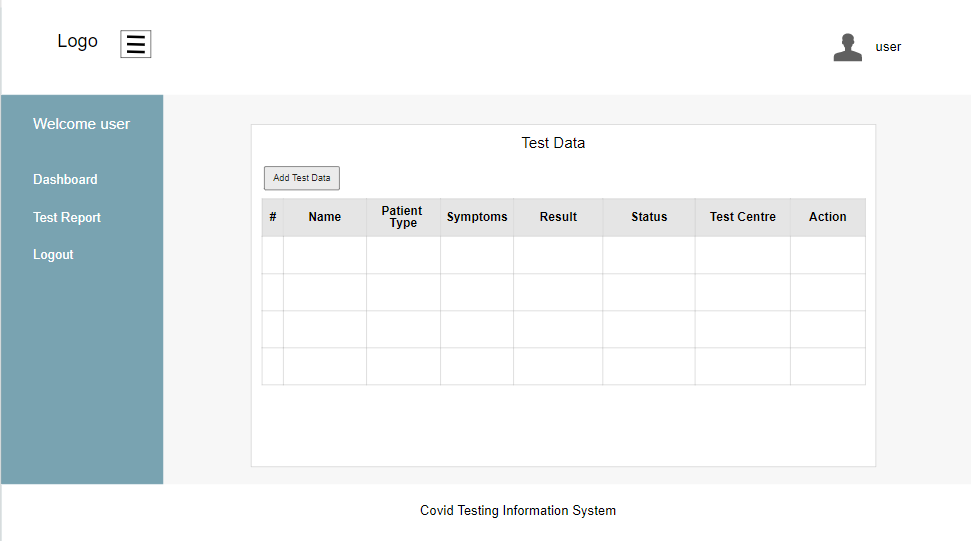
Generate Test Report



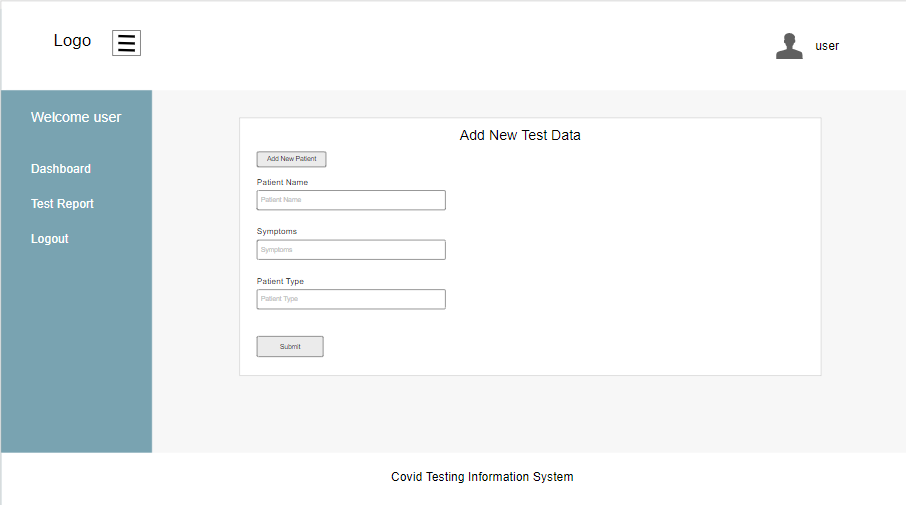
Tester Dashboard



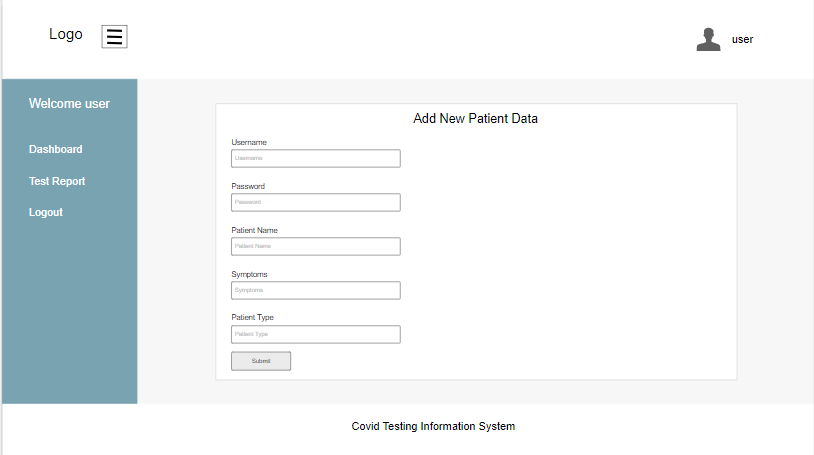
List Test Data Page



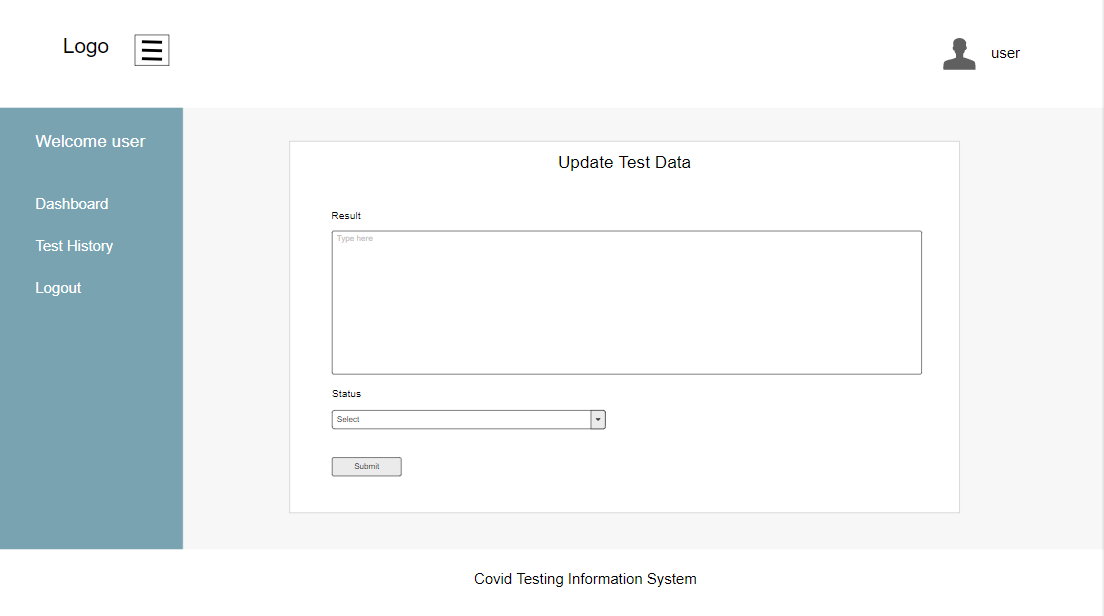
Record New Test Data



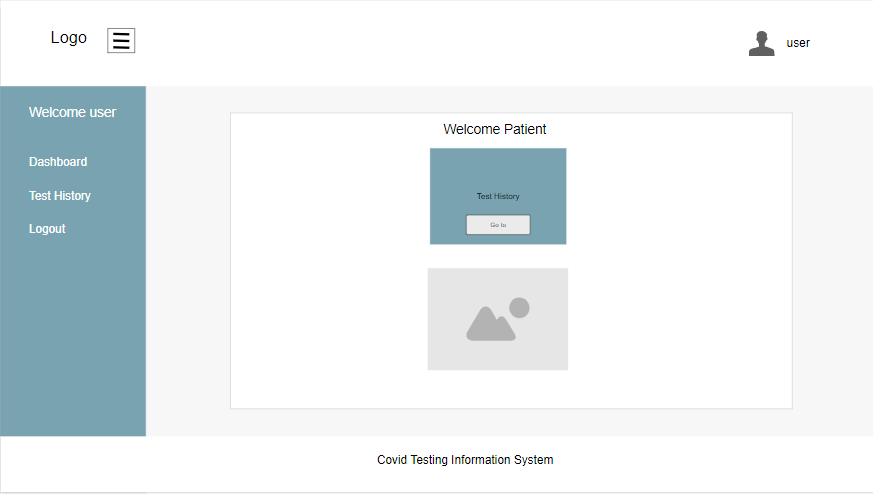
Record New Patient Data



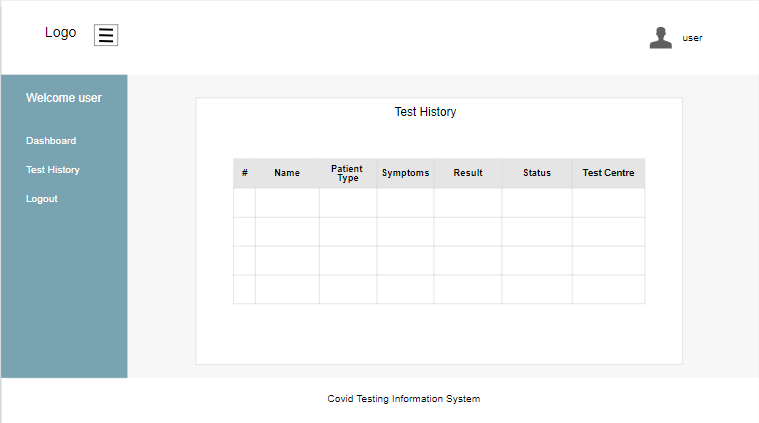
Update Test Result



Patient Dashboard

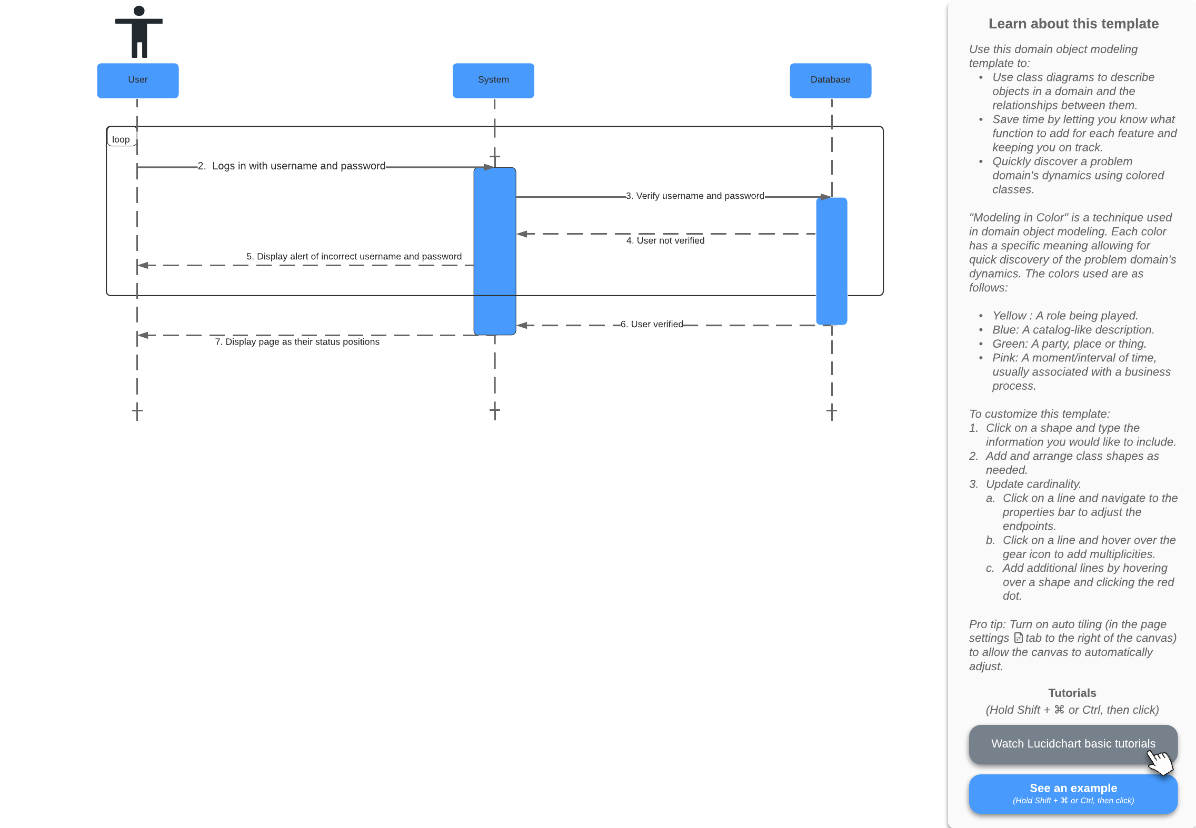


View Testing History Page



System Sequence Diagram + Contracts

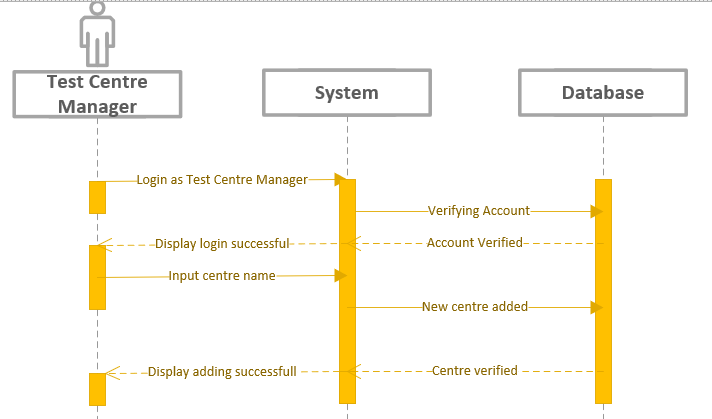
1. Log In



Prepared by: Pande Putu Rama Pratama Putra

|  |  |
| --- | --- |
| **Cross References** | **Login** |
| **Operation** | Login |
| **Responsible** | To display page as their status positions |
| **Pre-conditions** | * The username of user must be available * The password of user must be available |
| **Post-conditions** | * Username are matched according to names in database * Password are matched based on user’s password in database * Successfully displayed page as their status positions |

2. Register Test Centre

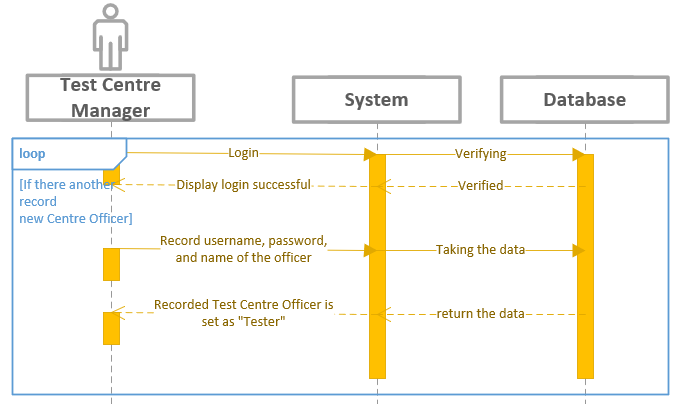


Prepared by: I Nengah Wahyudi Setiawan

|  |  |
| --- | --- |
| **Cross References** | **Register Test Centre** |
| **Operation** | Login |
| **Responsible** | To get access to page of test centre manager |
| **Pre-conditions** | * The username of user must be available * The password of user must be available |
| **Post-conditions** | * Username are matched according to names in database * Password are matched based on user’s password in database |

|  |  |
| --- | --- |
| **Cross References** | **Register Test Centre** |
| **Operation** | Input Centre Name |
| **Responsible** | To Register Test Centre |
| **Pre-conditions** | * Name of the Test Centre must be available |
| **Post-conditions** | * Test Centre’s name are successfully registered |

3. Record Tester

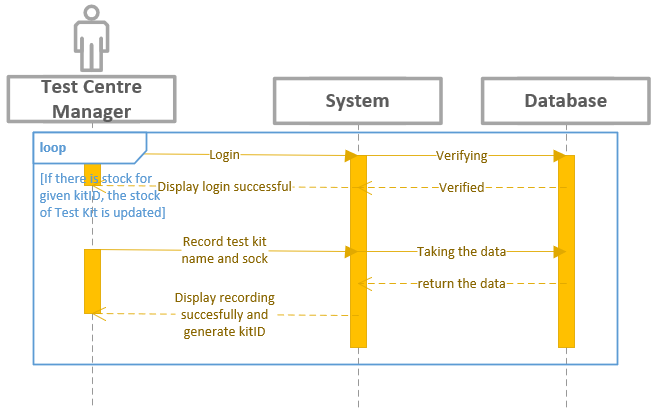


Prepared by: I Nengah Wahyudi Setiawan

|  |  |
| --- | --- |
| **Cross References** | **Record Tester** |
| **Operation** | Login |
| **Responsible** | To get access page of test centre manager |
| **Pre-conditions** | * The username of user must be available * The password of user must be available |
| **Post-conditions** | * Username are matched according to names in database * Password are matched based on user’s password in database |

|  |  |
| --- | --- |
| **Cross References** | **Record Tester** |
| **Operation** | Set and record the centre officer position as “Tester” |
| **Responsible** | To set the centre officer’s position to “Tester” |
| **Pre-conditions** | * The username of centre officer must be matched in database * The password of centre officer must be matched in database * The name of centre officer must be matched in database |
| **Post-conditions** | * Username are matched according to names in database * Password are matched based on user’s password in database * Name are matched based on user’s name in database * Positions status of the centre officer changed to “Tester” |

4. Manage Test Kit Stock

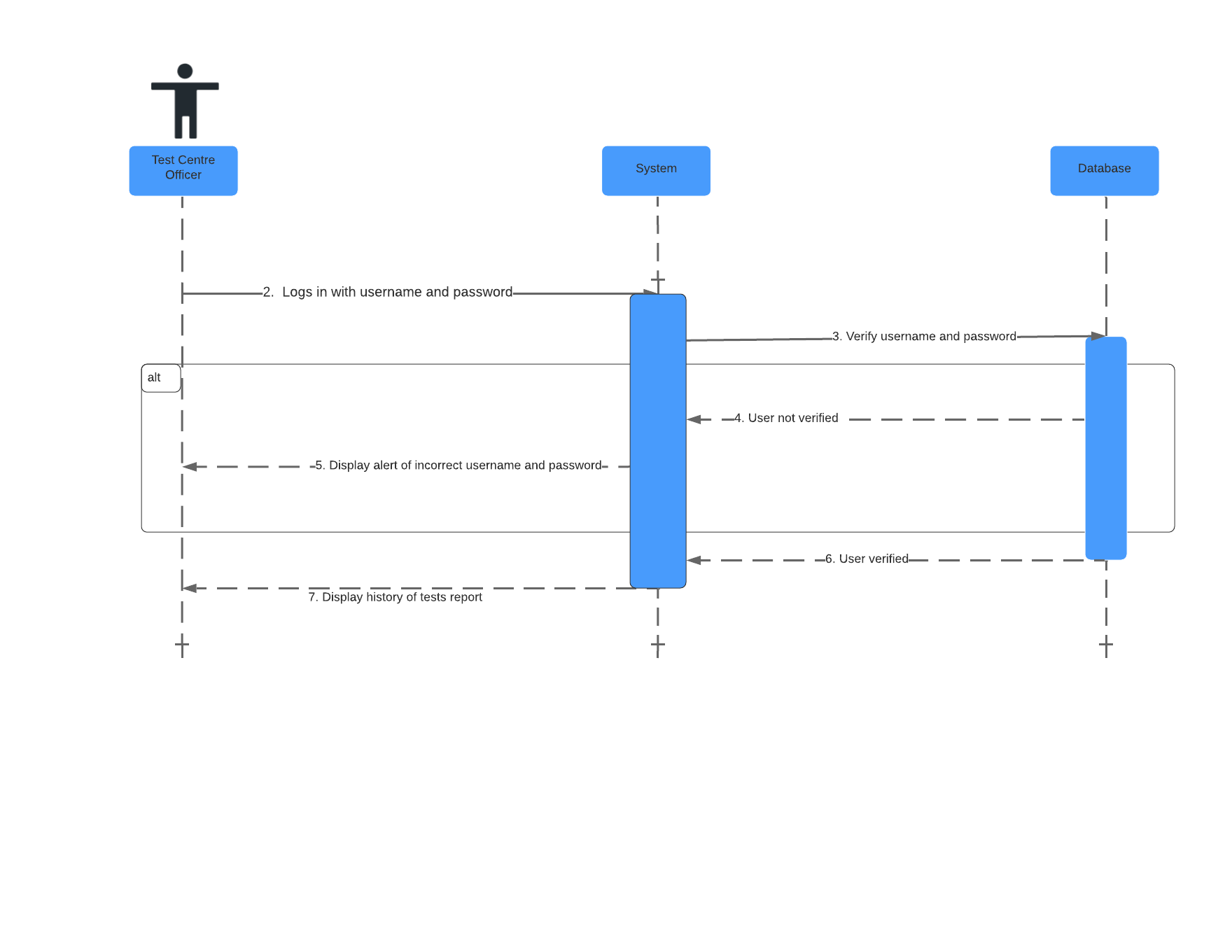


Prepared by: I Nengah Wahyudi Setiawan

|  |  |
| --- | --- |
| **Cross References** | **Manage Test Kit Stock** |
| **Operation** | Login |
| **Responsible** | To get access page of test centre manager |
| **Pre-conditions** | * The username of usermust be available * The password of user must be available |
| **Post-conditions** | * Username are matched according to names in database * Password are matched based on user’s password in database |

|  |  |
| --- | --- |
| **Cross References** | **Manage Test Kit Stock** |
| **Operation** | Record test kit |
| **Responsible** | To update test kit name and stock |
| **Pre-conditions** | * The name of test kit must available to record * The stock must know many available to record |
| **Post-conditions** | * Name of the test kit and stock are recorded and generate kitID |

5. Generate Test Report

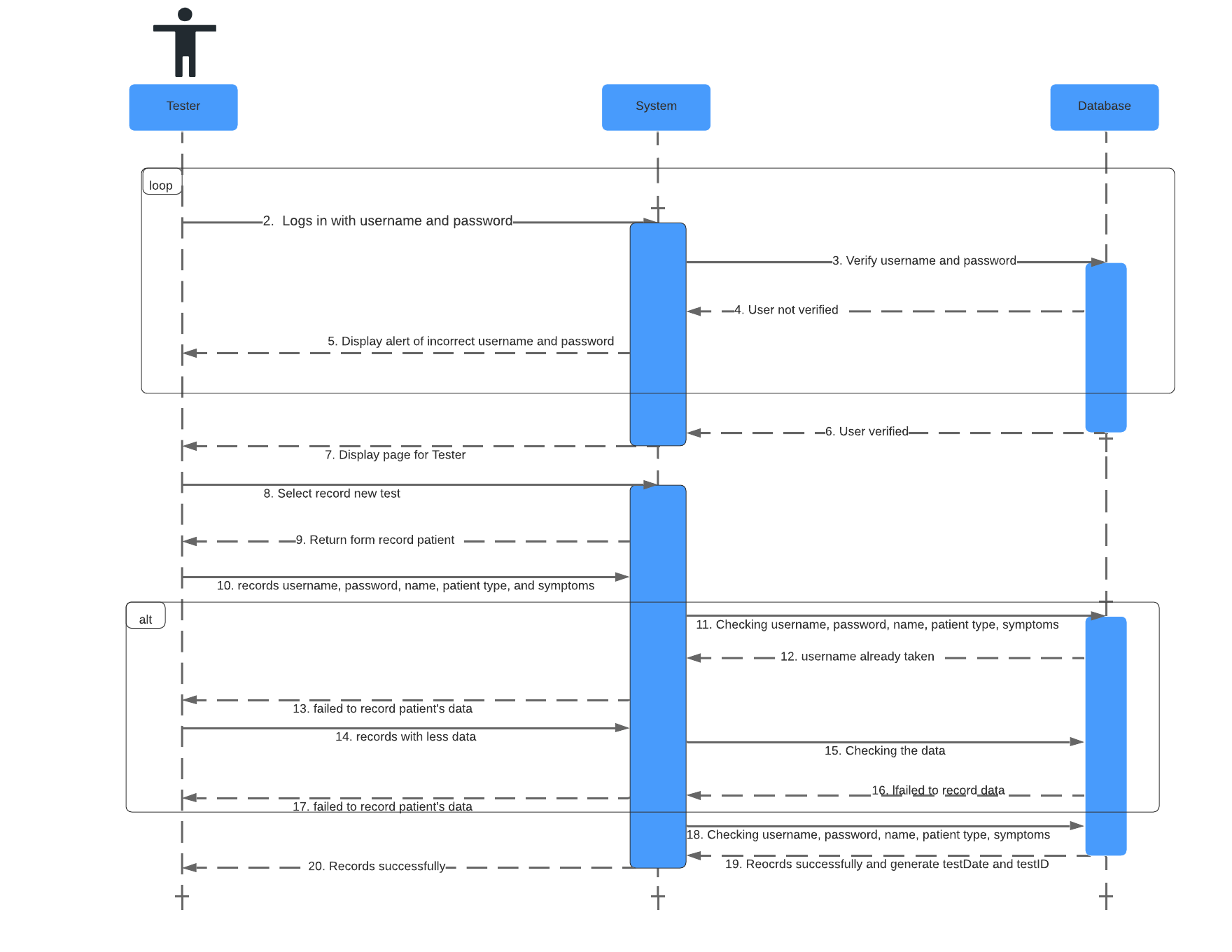


Prepared by: Pande Putu Rama Pratama Putra

|  |  |
| --- | --- |
| **Cross References** | **Generate Test Report** |
| **Operation** | Login username and password |
| **Responsible** | To get access page of test centre officer |
| **Pre-conditions** | * The username of user must be available * The password of user must be available |
| **Post-conditions** | * Username are matched according to names in database * Password are matched based on user’s password in database |

|  |  |
| --- | --- |
| **Cross References** | **Generate Test Report** |
| **Operation** | Display all history report |
| **Responsible** | To view all history of the report |
| **Pre-conditions** | * The report object must be available |
| **Post-conditions** | * All the report that administered is shown |

6. Record New Test



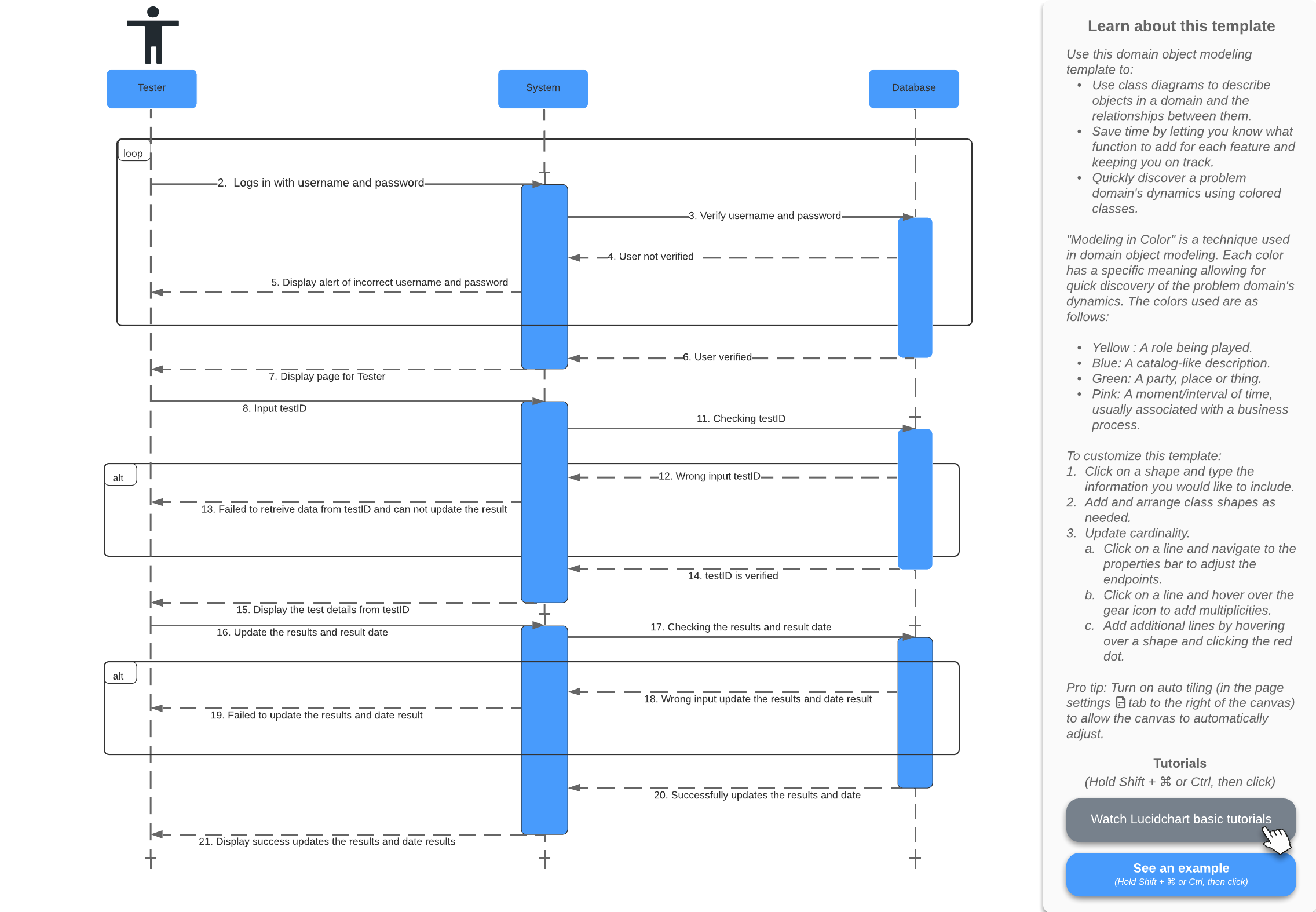
Prepared by: Pande Putu Rama Pratama Putra

|  |  |
| --- | --- |
| **Cross References** | **Record New Test** |
| **Operation** | Login username and password |
| **Responsible** | To get access page of tester |
| **Pre-conditions** | * The username of user must be available * The password of user must be available |
| **Post-conditions** | * Username are matched according to names in database * Password are matched based on user’s password in database |

|  |  |
| --- | --- |
| **Cross References** | **Record New Test** |
| **Operation** | Select record new test |
| **Responsible** | To get form of new test |
| **Pre-conditions** | * The form object must be available |
| **Post-conditions** | * Succesfully displayed form of new test |

|  |  |
| --- | --- |
| **Cross References** | **Record New Test** |
| **Operation** | Records username, password, name, patient type, and symptoms |
| **Responsible** | To record data of the patient |
| **Pre-conditions** | * The data object must be available |
| **Post-conditions** | * Succesfully record data of the patients * Successfully generate date of test and testID |

7. Update Test Result



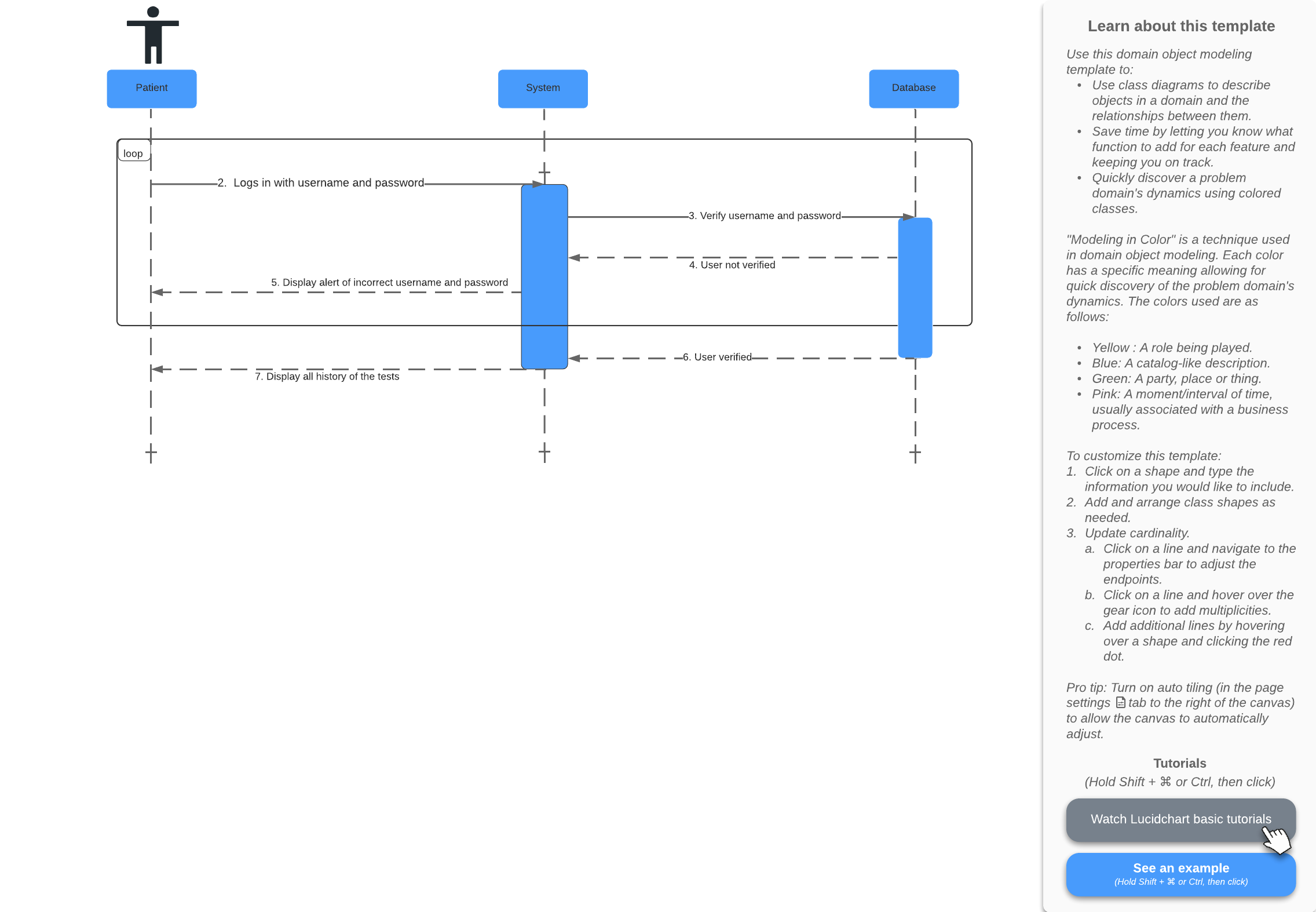
Prepared by: Pande Putu Rama Pratama Putra

|  |  |
| --- | --- |
| **Cross References** | **Update Test Results** |
| **Operation** | Login username and password |
| **Responsible** | To get access page of tester |
| **Pre-conditions** | * The username of user must be available * The password of user must be available |
| **Post-conditions** | * Username are matched according to names in database * Password are matched based on user’s password in database |

|  |  |
| --- | --- |
| **Cross References** | **Update Test Results** |
| **Operation** | Input testID |
| **Responsible** | To get data test from testID |
| **Pre-conditions** | * The testID object must be available |
| **Post-conditions** | * Successfully display test details from testID |

|  |  |
| --- | --- |
| **Cross References** | **Update Test Results** |
| **Operation** | Input date of test and result test |
| **Responsible** | To update the result of the test |
| **Pre-conditions** | * The date of test and result object must be available |
| **Post-conditions** | * Successfully update date of test and result test |

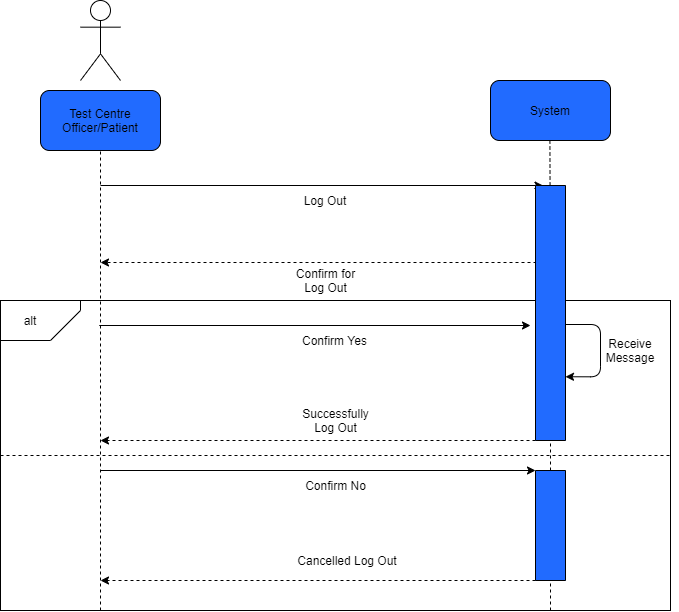
8. View Testing History



Prepared by: Pande Putu Rama Pratama Putra

|  |  |
| --- | --- |
| **Cross References** | **View Testing History** |
| **Operation** | Login username and password |
| **Responsible** | To display all history of the tests |
| **Pre-conditions** | * The username of user must be available * The password of user must be available |
| **Post-conditions** | * Username are matched according to names in database * Password are matched based on user’s password in database * Successfully displayed all history of the tests |

9. Log Out

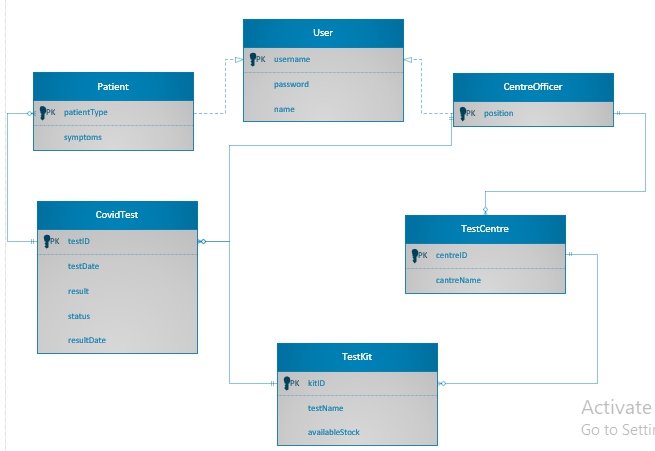


Prepared by: Pande Putu Rama Pratama Putra

|  |  |
| --- | --- |
| **Cross References** | **Logout** |
| **Operation** | Log Out User |
| **Responsible** | To log out user profile test centre officer / patient from system |
| **Pre-conditions** | * The user confirm yes to log out from system |
| **Post-conditions** | * The user successfully log out |

|  |  |
| --- | --- |
| **Cross References** | **Logout** |
| **Operation** | Cancel Log Out User |
| **Responsible** | To cancel log out user profile test centre officer / patient from system |
| **Pre-conditions** | * The user confirm no to log out from system |
| **Post-conditions** | * The user cancelled log out |

Database Design



Iteration 1

Use Case

|  |  |  |
| --- | --- | --- |
| Use Case | Developed By | Testing |
| Login | Rama | Iteration 1 |
| Log Out | Rama | Iteration 1 |
| Generate Test Report (Test Centre Officer) | Rama | Iteration 1 |
| Register Test Centre (Test Centre Manager) | Wahyudi | Iteration 1 |
| Record Tester (Test Centre Manager) | Wahyudi | Iteration 1 |
| Manage Test Kit Stock (Test Centre Manager) | Wahyudi | Iteration 1 |
| Record New Test (Tester) | Rama | Iteration 1 |
| Update Test Result (Tester) | Rama | Iteration 1 |
| View Testing History (Patient) | Rama | Iteration 1 |

Test Objectives

Asasas

Test Plan

Asaas

Unit Testing

Asasas

Integration Testing

Asasas

System Testing

Sasasas

Test Analysis Report

Asasasas

Update Gantt Chart